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SEATTLE. WASHINGTON

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TITLE _	AIR FORCE P	LANT 77 FLIG	HT ARTICLE MA	38 PROPERTIES	
	REPORT FOR	WING II MISS	ILES 648 - 669	).	
MODEL	17	1-80 B CC		AF 04 (694)-46	
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PREP AR	ED BY Z	e.L.D.	amer U	5/24/63	
APPRO'	VED BY  VED BY  & DISTR  VED BY	Land C. E	retto Brenden brug	5/27/3 5/28/63 5/20/63 (DATE)	

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U3 4287 9035 ORIG. 8/62

OF D2-13947-2

2-8142-2

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BOSING NO. D2-13947-2

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#### SUBOLARY

This document is prepared in accordance with BED Exhibit 62-110 dated 3 August 1962, "Missile Assembly Facility Requirements for Mass Properties Data." It contains the actual scalant weight and balance summary for Wing II missiles, the weight effect of all changes incorporated at Plant 77 not reported in D2-13946-X, and a configuration page for each missile included in this report.

BOEING VOL. NO D2-13947-2

- 1.0 INTRODUCTION
- 1.1 XMYERENCES
- 1.1.1 000 258 to AF 04(647)-580
- 1.1.2 BED Exhibit 62-110 dated 3 August 1962, Missile Assumbly Pacility Requirements for Mass Properties Data.
- 1.1.3 Boding Domment D2-13946-X, "Flight Article Mass Properties Report for Minutessa Wing IX Components".
- 1.2 DISCUSSION

This Nass Properties Report is presented in accordance with Section 3.2 reference 1.1.2.

Section 2.1 lists the actual weight and balance summary of Boeing seclant added at Plant 77.

Section 2.2 of the report lists the weight and balance of Autonetics scalant added at Plant 77.

Section 3.0 lists all the Bosing responsibility changes incorporated in the missile at time of delivery, not reported in reference 1.1.3.

Section 4.0 contains Configuration Summaries listing the serial numbers of major components for missiles included in this report.

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2.1	.1	WEIGHT AND BALAN BOEING SEALANT			וייני ויינו אַ זְּטַ	REPOI	₹T NO.	D2-13947	2		
	) 	MISSILE S/N 63-	190 (64	8)	PLANT //	DATE		June 1, 1963			
ELT.	SEC.	DESCRIPTION	DATA	MÈIGHT EXPENDED	WEIGHT	L	R OF GR	AV ITY	SLUG F	RI IA T2x10-3	
_	1.5	DV C		(LB)	(LB)	LONG.	LAT.	VERT.	ROLL	PISSH	
2.	41	RV Spacer	341.			<del> </del>			<b>.</b>		
<del></del>			3ilo_ Acro				ļ. —	+		<del> </del> -	
L	39	CTLI Section		<del> </del>		<del> </del>	<del> </del>	<del></del>	<del> </del>	<del> </del>	
5			\$ilo	1		<b>†</b>	-	-			
6			Aero				1				
	42	G&C Section									
<u>ئ</u> نو			_Silo_	<del> </del>		ļ		<b></b>	ļ <u>.</u> .		
	1,4	3rd Stage Bagine	Aero	<del> </del>	.97	91.7	109.3	116.2	<b></b>		
1.	' -	South and the second	Silo		21	Z֥.L	107.3	1.00.2			
12			Aero					· · · · · · · · · · · · · · · ·			
15.	,		Base			1					
	45	Interstage 2-3			3.00	59.8	100.8	105.1			
15. 1		(FwJ)	Silo	į							
17			Aero Base	<b>+</b>				· · · · · · · · · · · · · · · · · · ·		¦	
18		r	Silo	1							
2.5		Jettisoned J	Aero				ļ				
()		Portion	_Bose_					1			
		<u> </u>	- Jett	2.15		58.9	97.8	103.1			
	42	Interstage 2-3 (Aft)			.49	80.9	107.0	111.9			
24 24			_Silo_ Aero	} ·				<del> </del>			
	46	2nd Stage Engine	<u> Rei O</u>		2.46	115.9	110.2	117.6			
26		The same of the sa	Silo		<u> </u>	<del>42</del> 2:2.	110.5	TYL.Y			
27			Aero			L	1				
زو سا <sup>ر ن</sup> نداد			Bage								
	42	Interstage 1-2			2.63	65.1	102.7	109.0			
30		(Fwd)	Silo	·· <del>-</del>							
. 2	}		_Aero_] Base			<u> </u>					
3.5		ا برای برای برای به دیده مست. مانام	ر بازدن [اران دید :	· · · · · · · · · · · · · · · · · · ·	··············		·		***************************************		
35 55		Jettimned .	Lero				† ·	<u> </u>			
35		lortion .	.dude dett				,				
36	1.0	Table 2	iett i	1.81	1 02	67.1	99.6	107.8		Transfer engineering	
37 38	47	Interstage 1-2			1.06	<b>25</b> .9	109.4	115.2			
38 39		7417	Silo Aero					<del> </del>	· <del></del>		
	48	1st Stage Engine			2.62	198.6	113.1	122.5			
41		The second secon	\$.10	- · · · - · · · · · · · · · · · · · · ·		i santini	parawa tamba . I			· · · · · · · · · · · · · · · · · · ·	
42			Agro			,				****	
43	<del>, ,  </del>	Skirt MISSILE	Bair	i 	- A-	7	302	100			
44	+7	DK1Ft	Silo		2.01	65.1	106.6	108.8			
46			Acro					<del> </del>			
42			Base								
48]		MIŞJILE			1524		1				
49			Silo								
50		······································	_Aero_				! !				
			Bane_	-							
25		s Section Statio	Jett	W4 = - * \$		<del></del>	L		i		

\*Boeing Section Stations (See Missile Diagram)
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SEC. PAGE 7

21.2	WEIGHT AND BALAN BOEING SEALANT	NCE SUMM	ARY •	<b>פיפי וויאוג</b> וק	REPORT	r No	02-13947	• 2			
i	MISSILE B/N 63	191 (	653)	ELMINE (/	DATE	The second secon					
353		DATA	EXPENDED	TOTAL WEIGHT	CENTER	R OF GRA		INC	RT IA T2x10-1		
_			(LB)	(LB)	LONG.	LAT.	VERT.	ROLL	Pits		
1 41	RV Spacer							1			
2		3110_					 		L		
<u>کا ۔</u>		Aero	<del> </del>			·			<b></b>		
<u>L</u> 39	CTLI Section		ļ <b></b>	ļ	·						
5	<del> </del>	Silo	ļ		<del> </del>			<del> </del>			
	G&C Section	Acro	<del> </del>	<del> </del>			<del> </del>	<del> </del>			
٤	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Silo				Maria de la contramentamente del contramentamente de la contramentam					
9		Aero		<del> </del>							
	3rd Stage Engine			.89	92.3	109.7	117.0				
1	ļ	Silo		ļ				ļ	ļ		
2		Aero									
3 4 45	Intonstant	Base		2.61	60.2	100 3	105.1	<del> </del>			
4 145. 5 1	Interstage 2-3 (Fwd)	5110	· · · · · · · · · · · · · · · · · · ·	2.01		_ <b>Trons</b> 7	107.1				
	36. T 36. C	Aero		1	<u> </u>						
		Pase	1	1	1			1			
/ <u>'</u>		0110_		I					1		
7.	Jettisoned 4	Aero									
91-	Portion	Base	+x= ·	ļ	·						
1	<u> </u>	- Jett	1.85		80.1		102.6				
2 45	Interstage 2-3 (Aft)	Silo		.50	00.0	106.6	111.2	ļ <u>.</u>			
4	- (NI ()	Aero	<del> </del>								
	2nd Stage Engine		·	1.85	131.0	107.9	113.7	<u> </u>			
5 46		Silo									
7		Aero									
<u> 3 i                                   </u>		Base			-		<u> </u>				
9 42		ļ. <b></b>		3.16	66.0	102.8	108.4				
9	(Fwd)	Silo	<del> </del>	<del> </del>							
1, -	Control Comments of the Control of t	Aero	ļ <b>.</b>		<del> </del>						
3	,	Base	· · · · · · · ·	<del>  • • • • • • • • • • • • • • • • • • •</del>	<del> </del>			t			
4	Jettisoned	L Agro.	<del></del>	<del> </del>	}				-		
5	Portion	Base		1	1			1			
61	<u> </u>	- Jett	2.04		69.4	98.9	105.5				
7 47	Interstage 1-2	•	ļ	.84	97.2	109.8	116.4				
8   9	(Aft)	Silo	ļ						!		
7 1.2	lst Stage Engine	Acro	<del> </del>	3.07	224.4	110 E	118.1				
	Tar Drake Bik THE	Sila	1	7.71	SET	444.2		ļ · ·			
2		Aero	1	1							
~ i		Haue			1			<u> </u>			
4 49	Skirt MISSILE			4.31	65.5	103.8	105.3				
5		Silo									
<u>6</u>  _	<del></del>	_Aero .	<b>+</b>		ļ			<b> </b>			
<del>7 -</del>	MIGGIE	Pane	<del> </del>	17 63	<del> </del>		<del></del>		<del> </del>		
21-	MISSILE	Silo	<del></del>	17.23	<b>+</b>		<del></del>				
7		Aero	h	<del></del>	<del> </del>		1	<b></b>			
<del>`</del>	takan dan kanggapa da danggapan da san taka 1 da dan san tak 1 da da da san tak 1 da da da da da da da da da d	Base		t	<del> </del>		<del> </del> -	<b> </b>	-		
<del>-</del>	entropythological particles of the control of the c	Jatt	† <del> </del>	<b>†</b>				1	1		

\*Boeing Section Stations (See Missile Diagram)
2-5550-0-58

BOEINO | VOL | NO D2-1394 7-2

= •	ر . ـ	WEIGHT AND BALA BOEING SEALANT			PLANT 77	REPOR	T NO	D2-13947	-2	
		MISSILE 8/N 63			• assiva ( /	DATE.		June 1,	1963	
7777	333.	DESCRIPTION	DATA	EXPENDED WEIGHT	WEIGHT	1	R OF GRA	VITY		RTIA T2x10-3
7	<b>_</b>	RV Spacer		(LB)	(LB)	LONG.	LAT.	VERT.	ROLL	PITCI
2	74	RV Spacer	Silo	<del> </del>					<del>-</del>	}
<b>د.</b> ز			Aero	<del> </del> -	<del></del>		<del></del>			<del> </del>
l.	39	CTLI Section		<del> </del>		<del></del>				
5			Silo							İ
6			Acro							
	75	G&C Section			<u> </u>					<b></b>
3			<u>Silo</u>					<b> </b>		
-	1,4	3rd Stage Engine	Λero		.98	100.4	107.8	113.6	<u> </u>	<del> </del>
ì		71 0 00110	Silo	<del> </del>						
2			Aero			4				
3			Base		<u></u>					
	45	Interstage 2-3			2.58	59.0	100.2	104.6		ļ
5		(Fwd)	Silo_ Aero			a distribution and the second				ļ
ر ر			Вазе							
3			Silo							
3		Jettisoned	Aero							1
ି		Portion	Base_							
닉	7 =		- Jett	1.98	.50	58.7 80.7	97.6 106.8	102.6		<u> </u>
	45	Interstage 2-3 (Aft)	Silo		• 50	00.1	100.0	111.0		
3			Aero							<del></del>
	46	2nd Stage Engine			2.47	122.2	109.1	115.9		<del> </del>
6			Silo							
7. 8			Aero	ļ	recommendation of growing					
2			Base		2.64	- 65 O	100 5	111.0		
	47	Interstage 1-2 (Fwd)	641.	<del> </del>	2.04	63.9	104.5	111.0	<u>.</u>	ļ
		(L MQ)	Silo_ Aero							
2			Base							
3			Silo							
4		Jettisoned 4	_Aero							
5		Portion	Bose	1.80		65.3	101.9	110.2	···	
5	40	Interstage 1-2	- Jett	1.00	.67	99.3	111.7	119.8	<del></del>	<b>}</b>
8	14	(Aft)	Silo							<del></del>
8 9 0			Aero							
Q	48	lst Stage Engine			2.79	202.7	112.6	121.8		
1 2 3			Silo	ļ					•	
5			Aero Base	ļ			kon e nambo de obeco.			
4	40	Skirt MISSILE	arete (f		3.00	63.2	106.1	108.8		
5	-		Silo							
6			Aero							-
2			Base						· · · · · · · · · · · · · · · · · · ·	
8		MISSILE		<del> </del>	15.63					
귀			Silo_ Acro							
ץ ו			Base							
2	<del> </del> -		Jett							

\*Boeing Section Stations (See Missile Diagram)
2-5550-0-58

BDEING VOL NO. D2-13947-2
SEC. PAGE 9

2.1	L.\$	WEIGHT AND BALAN	CE SUMM	ARY .	Dramm mm	REPOR	T NO.	D2-13947	-2	
	;	BOEING SEALANT I MISSILE 8/N 63-	102 (65	B) AT AF	LINIAL AL	DATE	-	June 1,	-	
LEIE	SEC.	DESCRIPTION	DATA	EXPENDED WEIGHT		CENTE	R OF GRA	VITY	INE SLUG F	RT IA T2x10-3
1				(LB)	(LB)	LONG.	LAT.	VERT.	ROLL	PITCH
J.	41	RV Spacer								
2.			_3 <u>1</u> 10_					ļ		
7	70	COLT Cartina	Aero		<del></del> -					ļ
7	22	CTLI Section	Silo					<del> </del>	<del> </del>	<del></del>
5 6			Acro					+	·	
<u>.</u>	42	G&C Section	AGTO	<del>                                     </del>		,		<del> </del>		
			Silo							
<u>ئ</u> ن			Aero			7				
<u>lo</u>	44	3rd Stage Engine			. 44.	125.6	103.6	105.8		
11			Silo		<u></u>		ļ		ļ	Ļ <u>.</u>
12	$\vdash$		Aero	ļ <u> </u>			<b></b>	ļ	<del> </del>	<u> </u>
<u>ن</u> الم	LC.	Interstage 2-3	Base		2.13	61.9	99.3	103.0	<del> </del>	
15	72	(Fwd)	Silo	ļ		¥4.7	72.3	403.0	<b>†</b>	
15	-	11.4447	Aero					<del> </del>	<b>†</b>	
15			Base	<b>†</b>			<b>†</b>	1	1	
<u>18</u>			- Silo				Ι		I	
1.9		Jettisoned	_Aero_				I		I	
20		Portion	_Base	L			<u> </u>		<u> </u>	
2]	,_		- Jett	1.45		60.6	95.0	100.1		
2	45	Interstage 2-3	C 2 1		.22	75.0	100.0	100.0		
23. 24	$\vdash$	(Aft)	_Silo_	+		ļ	<del> </del>	+	+	<del> </del>
	46	2nd Stage Engine	Aero	<del></del>	.81	172.6	101.3	102.2	<del> </del>	<del> </del>
26.	79	THE OPERIOR DIVELLE	Silo	<del> </del>					†	<b></b>
27			Aero				1		1	
.8			Base							
	47	Interstage 1-2			2.20	66.8	102.7	107.6		
30		(Fwd)	Silo				<u> </u>		+	ļ
X ]			Aero_	ļ · ·		1		ļ		ļ
42			Base		ļ· ···	<del> </del>		<del> </del>	<del> </del>	ļ
3.3 34		Jettisoned	- Silo	<del> </del>			ļ ·-	+	<del> </del>	
	<b>-</b>	١ ٧	Aero				ļ		+	
35. 36.		4	. ⊍att Tüett	1.27		71.1	97.2	103.8	<b>†</b>	<b>†</b>
32	47	Interstage 1-2			.45	86.4	99.3	97.6		
38		Interstage 1-2 (Aft) let Stage Engine	Silo						4	1
39			Aero	ļ			1.55	1.00	<del>                                     </del>	<del> </del>
4Q_	48	1st Stage Engine		ļ	.73	296.5	100.2	100.4	<del> </del>	<b></b>
<b>t</b> ↓			Silo	<del> </del>		<del> </del>	<del> </del>	<del> </del>	<del> </del>	}
12	-		Base			i	<del> </del>	ļ	<del> </del>	<del> </del>
44	49	Skirt	40.74.177	-	1.95	62.7	101.6	102.6	+	<del> </del>
15			Silo	<u> </u>			7.7.5		1	t
46			Acro					I		
<del>1</del> 7			Base		L.	!	-	1	1	
+8		MISSILE			8.93	<b></b>		<b></b>	<del> </del> -	<u> </u>
19			Silo				ļ	<del> </del>		<b></b> _
50		Skirt MISSILE	<u>Aero</u>	ļ		<del> </del>		<del> </del>	<del> </del>	<del> </del>
يل.	-		Base	<del> </del>		<del> </del>	<del> </del>	<del> </del>	<del></del>	<del> </del>
22	<u> </u>	ng Section Stati	Jett	L	M = -	<del></del>	1	<u> </u>	<del></del>	<u> </u>

\*Boeing Section Stations (See Missile Diagram)
2-5550-0-58

BOEING | VOL | NO D2-13947-2

2.1.		WEIGHT AND BALAN BOEING SEALANT	installe.	J AT AY .	PLANT 77	!		D2-13947		
		MISSILE B/N 63-1	193 (660	)		DATE		June 1,		
1.1.1	3	DESCRIPTION *	DATA	SXPENDED WEIGHT	TOTAL WEIGHT	CENTE	R OF GRA	VITY	INER'IIA SLUG FT2x10-3	
				(LB)	(LB)	LONG.	LAT.	VERT.	ROLL	TEOTTOT
14	+1	RV Spacer					i			
-5		ا الما يبدر عالم الما الما المستخدم		/ 						
	_		Aero							
4 3	22	CTLI Section								<u></u>
5			Silo				\ •			
6	<del>\</del>	G&C Section	Acro	<u> </u>				<del> </del>		
-4 + 1	141	nac Section		<del> </del>		<b></b>		<del> </del>		
<u>اع</u>	+		Silo		<del></del> .			+	<del> </del>	
	14	3rd Stage Engine	<u>Aero</u>		.93	_ 95.5	100.0	115.9		<del></del>
1	· ' ‡	Na wind States and rates	silo	∳	•93.	, _ 32±2		112.9		
12	- †	هست. با ا	Acro	~· ~ · · ·			·			
13	-	ր ու ու ու ու <del>մաստու</del> ր 1	Base							
	5	Interstage 2-3			7.41	<b>5</b> 9.6	100.6	104.7		
151		(Fwd)	Silo							
15 17	_	To the second se	Aero							
	-+		_Вазе			···				
15			_Silo_							
29.		Jettisoned	_Aero.						L	
-		Portion	. Base	1.71		50.7	97.2	101.7		
4. 5.	٥	Interstage 2-3	- jett	4014	.28	59.7 80.6	107.0	112.1		
i 4	2	(Aft)	Silo			00	101.0	ا المحالة	****	
	†		Aero					·		
25 4	6	2nd Stage Engine,			2.24	123.6	109.0	115.6		
. á l			Silo	1 mm				##2:9		
27			_Acro							
- }	1		Base							
213 4	2	Interstage 1-2			2.20	65.7	103.1	109.8		
30	_	(Fwd)	Silo							
11.	- }		Aero							
-1-			Base							
734			- Silo.					ļ	, <del></del>	
ا ا			LACTO L					1	ļi	
35 36	-+	l'ortioni	. Doce - Jett	1.47		68.4	100.5	109.1		
	7	Interstage 1-2			1.22	94.9	107.7	113.2		
38	-+	(Aft)	عنده ا	,		mur#	, , ;= - <b>1</b>			* <del></del>
38 59			المالك المالك							
4Q 4	8]	let Stage Engine			2.90	210.4	111.7	120.1		
41		: •	\$170							
12+	+		Aerc		· · · · · · · · · · · · · · · · · ·					
+3	4		22			73-3	1000	-		
44 4	9	Skirt	Silo		3.26	63.2	107.2	109.9		
1.6	-+							ļ	<u></u>	
10	-+		Agro Esse	ز سد دوست شده ا ا				<del> </del>		
IA .		MISSILE			15.44			<del>                                     </del>		
101		HANNE HAN	Şilo		-Z			<del> </del>		
50	•		Aero l		· - · - ·	~ • . • •		······································		
44 4 45 46 47 48 48 49 50 50 51 52	•		3ane					<b></b>		
5			Jett							
Boo		e Section Stati				<del></del>				

\*Boeing Section Stations (See Missile Diagram)
2-5550-0-58

BOEINO | VOL | NO D2-13947-2

• •	MANUAL DESCRIPTION .			PIANT //		-			
1	BOEING SEALANT : MISSILE 8/N 63-	194 (66	2) ^^ ^2	Marine (/	DATE		June 1,	1963	
	•		EXPENDED	TOTAL		R OF GRA	V ITY	INE	RI IA
0	DESCRIPTION	DATA	(LB)	(LB)				ROLL	T PITC
+1	RV Spacer								
		Silo							
		Aero							
59	CTLI Section								
	·	f					ļ	<del> </del>	ļ
	40.0	Acro	<del> </del>	<del> </del>			<del></del>	ļ	
5	G&C Section			<del>                                     </del>				<del> </del>	
		y					<del>                                     </del>	<del> </del>	
14	3rd Stage Engine		<del> </del>	1.14	97.3	108.4	114.7	<del> </del>	-
	VI G B COLLEGE THE THE		1				******		
†		Aero					1	1	
		Base					L		
+5	Interstage 2-3	1		2.58	61.3	99.1	104.6		ļ
_	(Fwd)	Silo	<del> </del>				ļ	<b></b>	
-+		decommendation in the contract of the contract	ļ				ļ	ļ	<del> </del>
_		•					ļ <b>:</b>	<del> </del>	ļ <u></u> -
	Fatta and	<b>†</b>					<del> </del>	<del> </del>	ļ ·
				j				<del> </del>	ļ ·
-	101 0101		1.80	i	61.0	95.2	102.2		†
+5	Interstage 2-3	<del>                                     </del>		.38	82.4		116.6	<del>                                     </del>	1
	(Aft)	Silo							I
		Anre							
<del>1</del> 6	2nd Stage Engine			1.80	119.9	109.7	116.8		
	· · · · · · · · · · · · · · · · · · ·	<u> - 3110</u>	<del> </del>				<b></b>	·	ļ
			<del></del>				ļ	<del></del>	ļ
	Takanakan 3 O	Base		2 05	- KK R	1772 6	TARK	<del> </del>	<del> </del>
<u> </u>		8110	<del> </del>	2.77	ريين.	100.0	100.0	·	<del> </del>
<b></b>	/ F WG/		<del> </del>	·				<del> </del>	ļ
			1					<del> </del>	
	r	+	<b></b>						
	Jettisoned	Agra	I					<u></u>	Ι
	Portion	L Base							ļ
	ļ L	+ Jott	1.92	7.77	69.1			-	
±7_	Interstone 1-2	***************************************	ļ	1.02	94.8	101.0	113.2	ļ	
	(AIC)	2110	ļ	<del> </del>			<del> </del>		
ųR	lat Stude En : ne	- waca-	<del> </del>	2.61	100.6	1124	121 5	-	1
.124_	Texa remistration with a remi	Silo	i		-22!0	and the second		1	1
		Aero	1				<del></del>		1
		i Bare		1				1	
+9	Skirt		<b>1</b>	2.40	62.9	105.9	108.6	4	
								<u> </u>	<del> </del>
<del></del> -			<del> </del>				<del> </del>		
	147707777	Euse	<del> </del>	11. 202		<del> </del>	<del> </del>	<del> </del>	<del> </del>
	MISSILE		<del> </del>	17.00			<del> </del>	<del> </del>	<del> </del>
	an aga ang Brane - Mang atawa mana manana		ļ				·	+	t
			ļ	<del>   </del>			ļ		<b> </b>
		Jett	<del> </del>				1	<del> </del>	<del> </del>
	+1 +2 +5 +6 +7	DESCRIPTION  11 RV Spacer  39 CTLI Section  12 G&C Section  14 3rd Stage Engine  15 Interstage 2-3	DESCRIPTION DATA    RV Spacer	DESCRIPTION DATA EXPENDED WEIGHT (LB)  APPROPRIATE SITO  APPROPRIA	DESCRIPTION   DATA   WEIGHT   TOTAL	DESCRIPTION   DATA   EXPENDED   TOTAL   WEIGHT (LB)   LONG.	DESCRIPTION   DATA   STRENGED   TOTAL   CENTER OF GRA	DESCRIPTION   DATA   WEIGHT   WEIGHT   CENTER OF GRAVITY	DESCRIPTION   DATA   WILEST WEIGHT   CENTER OF GRAVITY   SIUG F   LAT.   VERT.   ROLL

\*Boeing Section Stations (See Missile Diagram)
2-5550-0-58

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SEC. PAGE 12

21.	7	WEIGHT AND BALAN BOEING SEALANT			REPORT NO.9 D2-13947 - 2						
	;	MISSILE 8/N 63-	195 (667	7)		DATE <b>June 1, 19</b> 63					
Line	SEC.	DESCRIPTION	DATA	EXPENDED WEIGHT	TOTAL WEIGHT	CENTER	OF GRA	THE RESERVE OF THE PARTY OF	INL	RT IA T2x10-3	
<u>.</u>			2017	(LB)	(LB)	LONG.	LAT.	VERT.	ROLL	FIMI	
<u>1</u>	41	RV Spacer									
۶.			Silo								
نے			Aero								
Ļ.	39	CTL1 Section									
5.			Silo								
6	1. 5	(20 () 17	7610						ļ		
. <u>(</u>	44	G&C Section	Silo	ļ	<del> </del>						
G.		and a second	. siio	<del> </del>	<del></del>				<del> </del>		
<u> </u>	44	3rd Stage Engine		<del> </del>	1.08	96.2	108.6	115.0			
1.		יא איים דים אוא איים דים בהנים או. 	Silo					707-04			
12			Aero	I			4				
Li			Base								
	45	Interstage 2-3		ļ	3.57	58.4	99.3	102.8			
نِد		(Fwd)	Silc	<u></u>	ļ ļ						
15 17	-	The state of the s	Aero	ļ · ·	ļ — — - ļ						
13. 13.			Silo	ļ					<del> </del>		
4: 12	-	Jettisoned /	Aero	<del> </del>	t						
	-	Portion	Base								
21		T.	- Jett	2.89		58.5	97.5				
22	45	Interstage 2-3			. 36	82.2	109.2	115.9			
نے		(Aft)	Silo	ļ . <del></del>	J						
24	<del>ل ب</del>		Agry		- A	100 =	488.4	445-4-	<u> </u>		
	46	2nd Stage Engine	) *	ļ	2.09	122.5	109.1	115.7			
26.		,	Silo	<del> </del>						<u> </u>	
27. 28			Aero Base								
	47	Interstage 1-2	Dase	<del> </del>	2.92	65.8	105.0	111.5	-		
30	1	(Fwd)	Silo	1						<u> </u>	
31			Aero						1		
32			Base								
33	<u> </u>	L	\$110	ļ					L	<u> </u>	
34		Jettimoned 4	L-2rc					<del> </del>	<del> </del>		
35 36		Portion	Pase_ Jett	1.77		67.5	100.5	108.9			
<u>30</u> 37	42	Interstage 1-2	1	*****	.76	99.2	112.0	120.2	<del> </del>		
38	<del>  1</del>	(Aft)	Silo	1	i <u></u> ;					i	
37 38 39			Aero	1						1	
40	48	let Stage Engine	.) •		3.01	194.4	112.6	121.8			
41 42	-		Silo	ļ	ļ						
42	<del> </del>		Arro	ļ							
43	1.5	10.7.2	Base	<del> </del>	2 30	Ze o	107.6	1007	ļ		
44 11=	149	Skirt	Silo	ļ	3.38	65.0	106.0	107.6	<del> </del> -	<b></b>	
12	+	<del> </del>	Arro	<del> </del>	<del> </del>			<del></del> -		ļ	
<del>10</del> 47	1-		L. Rage						İ		
48		MISSILE	A		17.17		-				
49			Sila	T							
50			Aero								
51			Вапе	1			· · · · · · · · · ·				
52		ne Section Stati	Jett	1		<u> </u>			L		

\*Boeing Section Stations (See Missile Diagram)
2-5550-0-58

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SEC. PAGE 13

١.	r. Q	WEIGHT AND BALAN BOEING SEALANT I	ice summ Instatle	GRY • Datay:	PLANT 77	REPORT NO. D2-13947- 2				
		MISSILE B/N 63-1			a 48747	DATE		June 1,	1963	
Line	350.		DATA	EXPENDED WEIGHT	WEIGHT		R OF GRA		SLUG F	
	4.7	RV Spacer		(LB)	(LB)	LONG.	LAT.	VERT.	ROLI.	PITCI
<u>2</u> .		My Spacer_	Silo				· ·		j i.	
ز			Aero	<u> </u>					<del> </del>	<del> </del>
	32	CTLI Section								
۶			Silo						ļ	
<u>6</u>	14.5	G&C Section	Acro	<del> </del>	<del> </del>					
 		die section	Silo							-
9			Aero .							
	44	3rd Stage Cagine	:-		0.89	94.8	109.7	116.4		
			Silo	ļ					<u></u>	
3			Aero Base			,				
4	45				2.84	<b>6</b> 0.7	99.8	104.5		
į.		(Fwd)	Silo	<b></b>	ļ	-				
• ).	-		kero	ļ	·					
:1  }		P.	_Bașe - Silo							
)		_Jettisoned	Aero					k		
"	-	Portion	Варе	<b>L</b>						
<u>`</u> .	1,5	Yatanata = 2.2	- Jett	1.90	0.04	60.3	95.4	101.0	<del></del>	
<i>C</i> .	12.	Interstage 2-3 (Aft)	Silo	ļ · ·,	0.96	79.1	104.3	107.2		
14		N. Y. C.	Aero		•					
5.	46	2nd Stage Engine			1.56	139.6	106.9	111.9	····	
5			<u> </u>			• • • • • • • • • • • • • • • • • • • •	·			
7. 8	-		Aero Buse	<del></del>						
	47	Interstage 1-2	D.1.13	<u> </u>	2.60	65.8	103.0	109.9		
Q.		(Fwd)	Silo							
Ω.			Tyoto .					} 		
3			Base Sile	·	ļ <b>.</b>					
4		Jettisoned	TSTICT.	1	<u> </u>					
5.6		Portion	Bace							
6	1.0	7-4	-Jett	1.58	<u> </u>	69.2	98.6	108.0		
8	47	Interstage 1-2 (Aft) let Stage Engine	Jilo		.83	96.5	109.4	115.7		
9		70.57	Acro	1						
Q.	48	lst Stage Engine		1	2.75	199.9	113.2	122.8		
1			0110	ļ	<del> </del>					
ば. ス			Pare d	<del> </del>						
4	49	Skirt			3.29	65.2	106.0	106.8		
5			Silo	ļ						
3 4 5 6 7 8			Aeru	<b></b>						 
2		MISSILE	Bune		15.72				<del></del>	
9	<b></b> -	114071 1984	Silo	<b></b>	4215					h
9		and a second with a second of the second of	Agro							
2			Вапе	ļ						
2		ng Section Stati	Jett		L	Ļ			L	·

\*Boeing Section Stations (See Missile Diagram)
2-5550-0-58

BDEIND VOL NO D2-13947-2
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	" 1	EIGHT AND BALANGEALANT INSTALLED	D AT AF	PLANT 77	,	REPORT	r NO	02-1394		
		ISSILE S/N 62-				DATE		June 1,		
21.17	320.	DESCRIPTION	DATA	EXPLNDED WEIGHT	TOTAL WEIGHT	CENTER	OF GRA	VITY	INE SLUG F	RTIA T2x10-
រ់	ίζ	DESCRIPTION	DAIA	(LB)	(LB)	LONG.	LAT.	VERT.	ROLL	T PITC.
1	41	RV Spacer					**************************************		<del></del>	
2			Silo							1
ز			Aero							
L	39	CTLI Section								
5			Silo							
6			Acro							
<u>'</u>	42	G&C Section								
ક			Silo							ļ
9			Aero							
	44	3rd Stage Engine			1.17	117.6	100.4	100.7		ļ. ———
<u>,</u>			Silo							<del> </del>
2			Aero							
نز	1.5	Y-1	Base		<del></del>					
4	42	Interstage 2-3 (Fwd)	Silo	<del> </del>						<del> </del>
5		/r wa/	Aero	<del> </del>						ļ
7	-		Base		<del></del>	<del></del>				<del> </del>
8	-	·	Silo			1			<del></del>	<del> </del>
9	-	Jettisoned	Aero	;						<del> </del>
0	-	Portion	Base							·
1	<u> </u>	t	- Jett							1
2	45	Interstage 2-3			·····					-
3		(Aft)	Silo							
24			Aero							
25	46	2nd Stage Engine			2.48	168.1	100.5	100.6		
26			Silo	 						
27			Aero							
8			Base							
	42	Interstage 1-2								
0	<u> </u>	(Fwd)	Silo							
	<u> </u>		_Aerc_	<u> </u>						
32	<del> </del>		Base	ļ						<u> </u>
33		<u> </u>	Silo							
4		Jettisoned -	_ Aero_	<del> </del>						
5.6	+-	Portion	Base Jett	<del> </del>					<del></del>	ļ
2	47	Interstage 1-2	0866							<del> </del>
8	77	(Aft)	Silo							<del> </del>
8	1	1245/	Aero							
ю	48	1st Stage Engine			1.85	293.4	100.0	101.5		
1			Silo						<del></del>	T
12			Aero							
3			Base							
14	49	Skirt								
15			Silo		 					
16			Aero							
2	<u></u>	<u> </u>	Base							
7 8		MISSILE		ļ	5.50				<del></del>	
9 0 1 2			Silo	ļ						<del> </del>
Q.			_Aero_	<b></b>		<b> </b>				<del> </del> -
1	L_	· · · · · · · · · · · · · · · · · · ·	Base	<b></b>		<del> </del>				<del> </del>
<b>ر</b> ة:	l	ng Section Stati	Jett.	<u> </u>		<u> </u>				

\* Boeing Section Stations (See Missile Diagram).
2-5550-0-58

DEFINE VOL NO D2-13947-2
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· 2.;	2.2.2/EIGHT AND BALANCE SUMMARY - AUTONETICS SEALANT INSTALLED AT AF PLANT 77.				REPORT NO. <b>D2-1394</b> 7 • 2			47 • 2			
		TISSILE S/N 63-1	91 (653)		•	DATE		June 1	June 1, 1963		
T.::3	330.	DESCRIPTION	DATA	EXPENDED WEIGHT	WEIGHT	L	R OF GR		SLUG F	RT IA T2x10-3	
ī	41	RV Spacer		(LB)	(LB)	LONG.	LAT.	VERT.	ROLL	FITTH	
2		Dpacer	3ilo		<del></del>	<del> </del>				<b>.</b>	
نا			Aero			<del> </del>		<del></del>		<del> </del>	
	39	CTL1 Section				<del> </del>	<del> </del>	<del> </del>		<del> </del>	
5.			Silo			1		1			
10	1.5	000 0 1:	Acro	ļ							
1	:t≤	G&C Section	Silo		<del></del>	<del> </del>	ļ			ļ	
<u></u> <u></u> <u> </u>			Aero				<del> </del> -	ļ		<b>!</b>	
	44	3rd Stage Engine	Nero		1.41	117.5	100.4	100.6		<del> </del>	
1.			Silo					100.0			
12			Aero								
$\frac{1}{14}$	T. e=	<u> </u>	Base								
15	42	Interstage 2-3 (Fwd)	Silo				, †	<del> </del>			
15		\1 wu/	Aero								
7			Pase					<del> </del>			
3			- Silo							·	
2		Jettisoned	Aero								
50		Portion	Base								
1	1.5	Interstage 2-3	- Jett								
	42	(Aft)	S11o								
23 24			Aero		<del></del>		<del></del>				
25	46	2nd Stage Engine	1,524		1.86	168.2	100.3	100.4		<del></del>	
26			Silo								
2 <b>7</b> 28			_Aero_i								
28	1.0	T-4	Base		<del></del>						
30	7/	Interstage 1-2 (Fwd)	Silo		<b></b>						
51		71 Mg /	Aero							•	
	<del>)</del> 1		Base								
52 33			- Silo			·					
34	~		Aero								
35		Portion ].	Page			· · · · · ,					
36 37	42	Interstage 1-2	- Jett								
38	-4	Interstage 1-2 (Aft)	Silo								
39			Aero					···-			
$40  \mathrm{h}$	481	let Store Engine	· I		2.01	293.2	100.0	100.9			
41			Silo								
45 LX			Aero				:				
44	49	Skirt	Bade	+		<del></del> i					
15			Silo		<del>-</del>						
45 46 47 48 49 50 51			Aero								
47			Base								
48		MISSILE			5.28						
49			Silo								
<del>4</del>			Aero   Base								
52			Jett								
	. 4	g Section Statio		Mdoodla	D4			<u></u>			

\* Boeing Section Stations (See Missile Diagras).
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BOEINO VOL NO D2-13947.2

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2:2.3WZIGHT AND BALANCE SUMMART - AUTONETICS						REPORT NO.		7-2		
A M	issile s/n 63-1	92 (655)	) Plant ((	•	DATE		June 1	, 1963	1963	
			EXPENDED	TOTAL	CENTER	OF GRA	V ITY	INERTIA SLUG FT2x10-3		
		DA4A	(LB)	(LB)	LONG.	LAT.	VERT.	ROLL	Fire	
41	RV Spacer								l	
_		Aero								
39	CTLI Section		ļ						<del></del>	
			<u> </u>						<del></del>	
1, 5	CCC Cootion	Acro							<del> </del>	
<u>::</u> c	day section	8410	<del> </del>							
	ar rain aine 1840 - Alberta agus Bartlaine, a s - 1840 Albertain an - Ann Airme		<del> </del>						1	
44	3rd Stage Engine		<del> </del>	2.15	117.4	100.2	100.4			
	San Antho - "Dane		<u> </u>							
		Aero								
	The second bloom and a restrict to the second bloom to the second	Base								
45	Interstage 2-3									
	(Fwd)		<u> </u>						: .,	
			<u> </u>						ļ	
			ļ						L	
			<del> </del>						<del>-</del>	
			<del> </del>						<del>.</del>	
-	Portion		+	<u> </u>						
1.5	Tetametera 3 7	- Jett	ļ					<del>, , , , , , , , , , , , , , , , , , , </del>	<del> </del>	
42		Silo							<del> </del>	
			+	!					<u> </u>	
46	2nd Stage Engine		<u> </u>	1.91	168.0	100.5	100.6			
		Aero	1							
		Base								
47										
<u> </u>	(Fwd)		<u> </u>							
			<del></del>	! <del> </del>	ļ <b>.</b>					
			ļ	ļ	ļ <b></b>				ļ <b>-</b>	
ļ	<del> </del>		ļ	<del></del>	<b> </b>		·		<del> </del>	
-			<del> </del>						<del> </del>	
├	Portion	Lase_	<del>+</del>	<del></del>				·	<del>-</del>	
47	Interstage 1-2	01366	+	<del> </del>	<del> </del>				<del></del>	
1	(Aft)	Silo	1		1				,	
		Aero							ļ <u></u>	
48	1st Stage Engine			2.27	293.2	100.0	100.7			
		Silo							<u> </u>	
		Aero	L						<u>.</u>	
		Base	<u> </u>	<b></b>	1		-		<del></del>	
49	Skirt	<del> </del>	<b></b>	<u> </u>	<u> </u>				<del> </del>	
<u> </u>			<del> </del>	ļ	<del> </del>				<del> </del>	
-		1	+	<del> </del>	1	<b></b>	<b>+</b>		<del></del>	
<del> </del>	MICCIE	Base	+	6.33	+		<del> </del>		<del>-</del>	
	MISSILE	L	<del> </del>	+-2:33	<del> </del>	<del> </del>	<del></del>		<del> </del>	
├-		241-	1	l .						
		Silo	<del> </del>				t		<del></del>	
		Silo Aero Base								
	41 39 42 45 45 46 47	### SEALANT INSTALLED   ### MISSILE S/N 63-1  ### DESCRIPTION  ### RV Spacer  ### Spacer  ### G&C Section  ### 3rd Stage Engine  #### Jettisoned Portion  #### Portion  #### Interstage 2-3 (Aft)  #### Aft Stage Engine  #### Interstage 2-3 (Aft)  #### Interstage 1-2 (Fwd)  #### Jettisoned Portion  #### Interstage 1-2 (Fwd)  #### Jettisoned Portion  #### Interstage 1-2 (Fwd)	### MISSILE S/N 63-192 (655    DESCRIPTION   DATA	### STALANT INSTALLED AT AF PLANT 77  ### MISSILE S/N 63-192 (655)  ### DESCRIPTION DATA EXPENDED  ### WEIGHT (LB)  ### Spacer    Silo   Aero	MISSILE S/N 63-192 (655)  DESCRIPTION DATA EXPENDED WEIGHT (LB)  41 RV Spacer  Silo Aero  39 CTLI Section  Silo Acro  42 G&C Section  Silo Aero  44 3rd Stage Engine  Silo Aero  Base  45 Interstage 2-3 (Fwd)  Jettisoned Aero  Portion Base  45 Interstage 2-3 (Aft)  Silo Aero  Base  Jett  47 Interstage 1-2 (Fwd)  Jettisoned Aero  Base  Filo Aero  Base  Jett  Silo Aero  Base  Jett  Jet	### MISSILE S/N 63-192 (655)    DESCRIPTION   DATA   WEIGHT (LB)   TOTAL WEIGHT (LB)   LONG.*	### REPORT NO. DATA   PLANT 77.   DATE	### REALANT INSTALLED AT AF PLANT 77.    MISSILE S/N 63-192 (655)   DATE   DATE   June 1	### REALANT INSTALLED AT AF PLANT 77.    MISSILE S/N 63-192 (655)   DATE   June 1, 1963	

\* Boeing Section Stations (See Missile Dingram).
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	WEIGHT AND BALANG BEALANT INSTALLE				REPORT	r no	D2-13947-2 June 1, 1963		
		182 (648		•	DATE				
3.50			EXPENDED	TOTAL WEIGHT	CENTE	R OF GRA	AND PERSONS NAMED IN	INE	RTIA 12x10-3
4 6	DESCRIPTION	DATA	WEIGHT (LB)	(LB)	LONG.	LAT.	VERT.	ROLL	PITCH
1 41	RV Spacer .				20				
2		Silo	<del> </del>						
;		Aero							
L 39	CTLI Section								
5	·	Silo							
6]		Acro							
1 42	G&C Section								··- ··-
٤]		Silo	<u> </u>						
9		Aero	ļ						
	3rd Stage Engine		<u></u>	1.62	117.5	100.3	100.5		
3	<b></b>	Silo	<u> </u>	<del></del>					
.2		Aero							
71/10		Base	ļ						
4 45		ļ - <u> </u>		·		·			L <b>.</b>
· <u>Ş</u>	(Fwd)	Silo	<del> </del>	<del> </del>	·				
5		Aero		<del> </del>		ļ			
: <del>/ </del>	-	Base Silo	<del></del>	<del></del>	ļ-···-	<del></del>			
9	Jettisoned	Aero	L	·					
0	Portion	Base	ļ	<del> </del>					
21	101.02011	- Jett	<del> </del>	<del></del>	·	 			
2 45	Interstage 2-3	1	<del> </del>		<del> </del>				
3	(Aft)	Silo	·	<del> </del>	† <del></del>				
24		Aero			1				
	2nd Stage Engine			1.74	169.3	100.7	100.9		
6		Silo							
7		Aero							
8	<u> </u>	Base	<u> </u>		L				
	Interstage 1-2	L							<u></u>
50 51	(Fwd)	Silo	ļ						
	· •	Aero	<del></del>	<b></b>	ļ	} •	<u> </u>		
2	<del></del>	Base	ļ	<u> </u>	ļ	<u> </u>	 	· <del></del>	
3		<u> </u>	ļ		i		: 		· •
54	Jettisoned 4	Aero	<del> </del>	<del></del>			!		<del> </del>
5	Portion	Pase	<del>+</del>		·		<del> </del>	L	
2 1.0	Portion  Interstage 1-2 (Aft)  let Stage Engine	Jett	<del> </del>	<del> </del>	<del> </del>				
18 7	(Vt+)	Silo	<del> </del>	<del> </del>	†		†	··	
30	- \na \(\frac{1}{2}\)	Aero	<del> </del>	<del> </del>	+		t		<del> </del>
0 48	lat Stage Engine	+ <del>\\</del>	1	2.17	293.1	100.0	100.6		
+1	THE PERSON NAMED IN	Silo	1	1					
12 -	<u> </u>	Aero	I		I	I	1		
+3		Base	I	Ţ <u> </u>		<u> </u>			
+4 49	Skirt				<u> </u>				
15		Silo				<u> </u>		<u> </u>	
6	-	Aero	<b></b>	<del> </del>	1		! 		; 
5 6 2 8	<u> </u>	Base	<b></b>	<u> </u>		<b></b>			
8	MISSILE	-	ļ	5.53	<u>.</u>	<del> </del>	<del> </del>		<del></del>
19		Silo		ļ	<del> </del>				
i9 i0 i1		Aero	<del> </del>	<b></b>	<del></del>	<del> </del>	<del> </del>		
21		Вале	<del></del>		+	<del> </del>		ļ	<del> </del>
		Jett	:	,			t .		

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\*Boeing Section Stations (See Missile Diagram).

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\*BOEINO VOL NO D2-13947-2

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	2	Weight and Balan Bealant Installe	D AT AF	PLANT 77	•	REPOR!	r no	D2-13947 - 2			
		dissile s/n 63-1	93 (660	)	-	DATE	<u></u>	June 1, 1963			
	320.	DESCRIPTION	DATA	EXPENDED WEIGHT	WEIGHT	L	R OF GRA		SLUG F		
+	41	RV Spacer		(LB)	(LB)	LONG.	LAT.	VERT.	ROLL	PITC	
		AV Spacer	Silo	<del> </del>	<del></del>				<b></b>	<del> </del>	
†			Aero	<del> </del>	<del></del>		<del></del>	<del> </del>		<del> </del>	
1	39	CTLI Section		<del></del>			<del></del>	<del> </del>		<del> </del>	
-	·	to the second se	Silo				***************************************				
			Acro								
1	42	G&C Section						ļ		<b></b>	
			Silo	ļ				ļ	ļ	<del> </del>	
1	. 1.	7 ) 64 10 1	Aero	<del> </del>	•					<del> </del>	
+	44.	3rd Stage Engine	Cila		1.93	117.5	100.3	100.5		<del> </del>	
+			Silo Acro	ļ					ļ	<del> </del>	
+			Base	<del> </del>				<del> </del>	·	<del> </del>	
†	45	Interstage 2-3	DAGE					<del> </del>		<del> </del>	
1		(Fwd)	Silo							1	
			Aero								
I	$\Box$		Base								
. .			- Silo	<u> </u>				ļ			
4.			<u> Aero</u>					ļ	ļ	į	
+	-	Portion	Base	<del> </del>	<del></del>			1	<del> </del> -	<del> </del>	
+		T-4	- Jett	<del> </del>							
1	+2	Interstage 2-3 (Aft)	Silo					<del> </del>	<del> </del>	<del> </del>	
$\frac{1}{1}$		8447	Acro	<del> </del>		· · · · · · · · · · · · · · · · · · ·		<del> </del>		-	
	46	2nd Stage Engine			1.82	168.7	100.9	101.1	<del> </del>	<del> </del>	
1			Silo							†	
			Aero								
1			Base	İ				<u> </u>		<u>L</u>	
1	+2	Interstage 1-2							L		
1		(Fwd)	Silo						) 	! <del>!</del>	
+			Aero					 	<del></del>	ļ <u></u>	
+			Base	ļ				ļ	<del> </del>	ļ	
		Jettimoned J	Silo_ _ Aero_						<u> </u>	<del> </del>	
1		Portion	Pase	<del> </del>							
1			- Jett					<u> </u>		<del> </del>	
I	47										
		(Aft)	Silo	ļi							
+			_Aero_		· · · · · · · · · · · · · · · · · · ·					i 	
ť	40	lst Stage Engine	611-	<del> </del>	1.57	293.3	100.0	101.3			
			Silo Aero	·							
+	$\dashv$		Base					·			
1	40	Skirt	27% CO G	<b> </b>					ļ		
+	-4		Silo								
İ			Aero								
İ		Skirt MI\$SIJE	Base								
]		MISSILE			5.32					<b></b> .	
			\$110_								
1			Aero		-	<b></b>					
,			Base	, ,		. }		,	,		

\* Boeing Section Stations (See Missile Diagram).
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BDEING VOL NO D2-13947-2
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	WEIGHT AND BALANG				REPORT	NO.	02-1394	7-2	
	SEALANT INSTALLED MISSILE S/N 63-1	94 (662)	PLANT 77 )	•	DAZE	<del>100.</del>	June 1, 1963		
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		DATA	EXPENDED	TOTAL WEIGHT		OF GRA	THE REAL PROPERTY AND ADDRESS OF	INERTIA SLUG FT2x10-3	
7 10	DESCRIPTION	DATA	WEIGHT (LB)	(LB)	LONG.	LAT.	VERT.	ROLL PITCH	
1 41	L RV Spacer					······		•	
2]		Silo							
_انـ		Aero							
L 39	CTLI Section								
-   5	-	Silo	<u> </u>	! !					
6 42	G&C Section	Acro	<del> </del>	<del> </del>					
£, 122	class section	Silo							
9	<del></del>	Aero	<del> </del> -	<del> </del>	ii				
	+ 3rd Stage Engine			1.54	117.5	100.3	100.5		
1.		Silo							
12		Aero							
15	,	Base	<b></b>		ļ				
14 40		0.13	ļ	ļ					
12	(Fwd)	Silo Aero	!	<del> </del>					
15 -	<del></del>	Base	<u> </u>	ļ	<del> </del>	<u> </u>			
)	<del></del>	⊢ Silc		<del> </del>	<del> </del>				
17	Jettisoned	Aero					1		
.0	Portion	Base	1	1				)	
, 1	L	- Jett					l		
2 4		)			· <del> </del>				
برج	(Aft)	Silo	<u> </u>		<b></b>				
-4		Aero	<del> </del>	1	1267 0	300.0	300.0	<del></del>	
25 46	6 2nd Stage Engine	Silo	<del> </del>	1.86	167.9	100.2	100.2		
26   27		Aero	<del> </del>	<del> </del>	<del></del>				
28		Base	<del></del>		·				
29 47	7 Interstage 1-2				<del> </del>				
30	(Fwd)	Silo		<u></u>					
31		Acro		ļ		1			
22		Base	ļ	ļ	ļ		<u> </u>		
33		- Gilo	·	·			, †		
34	Jettisoned 4	_Aero_	ļ	ļ				-	
35	Portion	Pase_ - Jett	<del></del>	<del> </del> -			<del> </del>		
37 4	7 Interstage 1-2		-	<del> </del>	<del> </del>	· · · · · · · · · · · · · · · · · · ·	1	and the second s	
38	(Aft)	Silo	<del></del>	1			<u> </u>		
39		Aero			<del></del>				
40 4	Portion 2 7 Interstage 1-2 (Aft) 8 lst Stage Engine		<u> </u>	2.43	293.2	100.0	101.0		
41 42 43 44 4 45 46 47 48		DIL.	<del> </del>	<u> </u>	·	ļ			
42		, Aero	ļ	<del> </del>	1	ļ			
45	0 824 m4	Вале	-	<del> </del>	<del></del>	<del></del>	<del> </del>	<del> </del>	
145	9 Skirt	3110	<del> </del>	<del> </del>	·				
46	· · · · · · · · · · · · · · · · · ·	Aero	<del> </del>	+	-	† - <del></del>	1		
42		Buse		<u>i</u>					
48	MISSILE			5.88					
49		5110			· •		<b>4</b>	ļ	
50		Aero	<u> </u>	<u></u>	<del> </del>		<del> </del>		
49 50 <b>51</b> 52		Base	<del> </del>	<del></del>		ļ		<b>-</b>	
	ing Section State	Jett	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	ا	

• Boeing Section Stations (See Missile Diagram).
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BOEINO VOL NO D2-13947-2
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2.2.	2.7 WEIGHT AND BALANCE SUMMARY - AUTONETICS SEALANT INSTALLEL AT AF PLANT 77.						NO.		2-13917.2		
	M	ISSILE S/N 63-19	95 (667)		_	DATE June 1,					
25.77	333.	DESCRIPTION		EXPENDED WEIGHT	TOTAL WEIGHT	CENTER	OF GRA	VITY	INE SLUG F	RT IA 12×10-3	
-7				(LB)	(LB)	LONG.	LAT.	VERT.	ROLL	FIGH	
_1	41	RV Spacer				,					
2.			Silo								
نہ	70	CONT. T. O. A.I.	Aero				<del></del>				
	וצכ	CTLI Section	Silo								
. <u>5</u>		··	Aero								
	42	G&C Section									
<u>ئ</u> 9			Silo								
			Aero								
	44	3rd Stage Engine			1.77	117.3	100.2	100.3			
1.1			Silo		<u></u>						
12			Aero Base	ļ··· l		, .					
	45	Interstage 2-3	សរាជម	<del> </del>							
15	12	(Fwd)	Silo								
15			Aero								
15 17			Base							•	
18			- Silo								
13		Jettisoned .	Aero	·			<u> </u>	i 			
20		Portion	Base - Jett						·		
21	45	Interstage 2-3	oeç.								
ا الم	12	(Aft)	Silo	<del> </del>	<del> </del>		<del></del>				
24			Acro	1				!			
	46	2nd Stage Engine		·	2.00	168.4	101.0	101.3			
26	ļ		_Silo_	4				<del> </del>			
27.	<b></b>		Aero.	ļ							
20	47	Interstage 1-2	Base	<del> </del>			· · · · · · · · · · · · · · · · · · ·				
30	7	(Fwd)	Silo	<del> </del>		ļ					
31	] 	1	Aero	İ							
32	<u></u>		Base								
.33	ļ	L	- Silo_	<b>+</b>		ļ		·			
13/±		Jettisoned 4.	Aero					·			
35 36	<del>  -</del>	Portion	Base - Jett	ļ <u> </u>							
37	47	Interstage 1-2	<u> </u>	<del> </del>			<del></del>	<del> </del>			
38	Ľ	(Aft)	Silo	1							
39			Aero		- X - X - X		305 5	3.75	-		
40	48	Interstage 1-2 (Aft)  Lat Stage Engine  Skirt  MISSILE		4	2.39	293.1	100.0	101.2			
41	<del> </del> -		Silo	<del></del>				L			
42	<del> </del>	<u> </u>	Aero	4		ļ · ˈ	-				
44	40	Skirt		!		<del> </del>	<del> </del>	<u> </u>			
115			Silo	1	L	L	L	<u> </u>			
46			Aero	1		•			,		
42	<b>_</b>	L	Base	<del> </del>		<u> </u>		) 			
48		MISSILE		ļ	6.16		·	<u> </u>			
49	<del> </del> -		Silo_	1.		<del></del>				l	
120	<b></b> -	ر در المحمول المحمول المحمول المحمول المحمول المحمول المحمول المحمول المحمول المحمول المحمول المحمول المحمول ا المحمول المحمول  Aero Base			<del> </del>		<del> </del>				
127	<del> </del>		Jett .	<del> </del>		<del> </del>		1			
عدا		ne Section Stati		Nicoile	Di- gran	<u>)</u>	· · · · · · · · · · · · · · · · · · ·	<u> </u>	·		

\* Boeing Section Stations (See Missile Dingram).
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DOESNO VOL NO D2-13947-2

		EIGHT AND BALAN EALANT INSTALLE	D AT AF	PLANT 77	• 	REPOR	REPORT NO		D2-13947-2			
	) 	ISSILE S/N 63-	196 (66	9)	•	DATE			June 1, 1963			
21.11	320.	DESCRIPTION	DATA	EXPENDED WEIGHT	WEIGHT	i	R OF GRA		SLUG I	RTIA TT2x10-3		
1	41	RV Spacer	<del></del>	(LB)	(LB)	LONG.	LAT.	VERT.	ROLL	PITCH		
2			Silo			<del> </del>		·	L	d		
ز			Aero					<del> </del>		<del> </del>		
L	39	CTLI Section				<u> </u>	<del></del>	<u> </u>	<u> </u>	<del> </del> -		
. 5.		and design to the second secon	Silo			1						
6			Acro									
		G&C Section								<b></b>		
<u>.</u> ધ			Silo	<b></b>		<del> </del>		<b></b>		ļ		
	1.1.	3rd Stage Engine	Aero			<del> </del>	<del></del>			ļ		
1	77	No praise pulling	Silo	ļ						<del> </del>		
12			Aero							<del> -</del>		
<u>.</u>			Base	ļ		†						
14	45	Interstage 2-3			2.10	117.4	100.2	100.4		<del>                                     </del>		
<u>ئا</u>		(Fwd)	Silo							4		
15		·	Aero							A		
17			Base						~	· · · · · · · · · · · · · · · · · · ·		
18			Silo	ļ						ļ		
ज्		Jettisoned	Aero	·		\						
20 21		Portion	Base		····					<del> </del>		
	45	Interstage 2-3	- Jeţt									
23		(Aft)	Silo							ļ ·-		
24			Aero	<del> </del>	<del></del>	<del> </del>				+		
25	46	2nd Stage Engine			2.40	168.1	100.5	100.7		<del></del>		
26_			Silo						· · · · · · · · · · · · · · · · · · ·			
27			_Aero_									
28			Base									
29_	42	Interstage 1-2										
<u> </u>		(Fwd)	Silo							<del> </del> -		
11	<u> </u>		_Aero_									
32 33			Base Silo									
54 54		Jettasoned	Aero	·		<b></b>				<u>+</u>		
35		Portion	Base			1		··• ···•				
35 36		Ц	- Jett									
27_	47	Interstage 1-2 (Aft) lst Stage Engine								,		
20		(Aft)	Silo									
7	1,9	Jat Ctara Passar	Acro		2 20	202 0	100 0	103				
וא	70	Tar Stake cuklue	Silo		2.30	293.9	100.0	101.1				
12			Nero			<del> </del>						
3		Skirt MISSILE	Base		<del></del>	<del> </del>	:					
4	49	Skirt				<del>                                     </del>	<del></del>		<del></del>			
15			Silo							·		
6			Aero		***							
2			Base									
8		MISSILE			6.80	I						
9			Silo			<b></b>	·					
Q			Aero			<b> </b>						
1			Ваве		····	<b> </b>						
2		a Section State	Jett			<u> </u>						

• Boeing Section Stations (See Missile Diagram).
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Missile	3.0 Boeing Changes Missile s/n 648-669					-13947-1				
	The following changes were made on the Boeing Components at Air Force Plant 77: These changes were not reported in D2-13946-X.									
MISSILE SECTION	ITEM	AFFECTED	PART NO.	CHANGE NO.	WEIGHT CHANGE		LAT. C.G.	VERT. C.G.		
	note:	Raceway sealing at Plant 77 po	r ECP 540.		,			(658)		
			·							
							,			

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4.1 CONFIGURATION SUMMARY
MISSILE B/N 63-190 (648)

EPORT NO. D2-13947-2

DATE

June 1, 1963

MISSILE B/N 03-190 (648)	DA DA	TE June 1	, 1903
COMPONENT		PART NO.	BERIAL NO.
Cable Assembly-Electrical	Stage 3	25306-102	AFE0019
Flight Control Unit	Stage 3	25302-102	AFB0013
Motor	Stage 3	01A00063-005	0032008
Heat Deflector Support	Stage 3	25-36379-1	0000919
Interstage Assembly-Insulated	Stage 2-3	25-36103-1	00002 <b>02</b>
Angular Accelerometer Unit	Stage 2	25170-102	<b>AAN</b> 0164
Battery Assembly	Stage 2	66603-107	AAV0332
Cable Assembly-Flectrical	Stage 2	2 <b>53</b> 05-102	AFD0013
Flight Control Unit	Stage 2	25300-102	AFA0014
Motor	Stage 2	366978-49	0022008
Heat Deflector Support	Stage 2	25-36378-1	0000198
Interstage Assembly-Insulated	Stage 1-2	25-36101-1	0000199
Battery Assembly	Stage 1	66603-107	AAV0351
Cable Assembly-Electrical	Stage 1	25304-102	AFC0007
Flight Control Unit	Stage 1	25301-102	AEZ0020
Motor	Stage 1	V32300-11	0012006
Heat Deflector Support	Stage 1	25-36377-1	0000196
Skirt Assembly	Stage 1	25-36080-1	0000200
	;	,	
•	7		
			•
·			
<u> </u>		<u> </u>	

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4.2 CONFIGURATION SUMMARY
MISSILE S/N 63-191 (653)

REPORT NO. D2-13947-2

DATE

June 1, 1963

COMPONINT		PART NO.	SERIAL NO.
Cable Assembly-Electrical	Stage 3	25306-102	AFE0023
Flight Control Unit	Stage 3	25302-102	AFBOO17
Motor	Stage 3	01A00063-005	0032007
Heat Deflector Support	Stage 3	25-36379 <b>-1</b>	0000197
Interstage Assembly-Insulated	Stage 2-3	25-36103-1	0000198
Angular Accelerometer Unit	Stage 2	25170-102	AAMO159
Battery Assembly	Stage 2	66603-107	AAV0304
Cable Assembly-Flectrical	Stage 2	25305-102	AFD0014
Flight Control Unit	Stage 2	25300-102	AFAOO11
Motor	Stage 2	366978-49	0022007
Heat Deflector Support	Stage 2	25-36378-1	0000194
Interstage Assembly-Insulated	Stage 1-2	25-36101-1	0000211
Battery Assembly	Stage 1	66603-107	AAV0329
Cable Assembly-Electrical	Stage 1	25304-102	<b>AFC00</b> 19
Flight Control Unit	Stage 1	25301-102	AEZ0009
Motor	Stage 1	U32300-11	0012008
Heat Deflector Support	Stage 1	25-36377-1	0000198
Skirt Assembly	Stage 1	25-36080-1	0000192
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4.3 CONFIGURATION SUMMARY
MISSILE 8/N 63-192 (655)

DATE June 1, 1963

COMPONENT		PART NO.	BERIAL NO.
Cable Assembly-Electrical	Stage 3	25306-10 <b>2</b>	AFE0017
Flight Control Unit	Stage 3	25302-102	AFB0016
Motor	Stage 3	01A00063-005	0032012
Heat Deflector Support	Stage 3	25-36379-1	0000199
. Interstage Assembly-Insulated	Stage 2-3	25-36103-1	0000192
Angular Accelerometer Unit	Stage 2	25170-102	AAN0170
Pattery Assembly	Stage 2	66603-107	AAV9348
Cable Assembly-Electrical	Stage 2	25305-102	AFD0012
Flight Control Unit	Stage 2	25300-102	<b>AF</b> A0015
Motor	Stage 2	<b>366978-</b> 49	0022006
Heat Deflector Support	Stage 2	25-36378-1	0000199
Interstage Assembly-Insulated	Stage 1-2	25-36101-1	0000212
Battery Assembly	Stage 1	66603-107	A <b>AV</b> 03 <b>6</b> 1.
Cable Assembly-Electrical	Stage 1	25304-102	AFC0006
Plight Control Unit	Stage 1	25301-102	AEZOO18
Motor	Stage 1	V32300-11	0012009
Heat Deflector Support	Stage 1	25-36377-1	0000194
Skirt Assembly	Stage 1	25-36080-1	0000195
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MISSILE B/N 63-182 (458)

REPORT NO. DE-13947-2

DATE June 1, 1963

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COMPONERT		PART NO.	SERIAL NO.	
Cable Assembly-Electrical	Stage 3	2530 <b>5-102</b>	AFEG025	
Flight Control Unit	Stage 3	25302-102	AF90009	
Motor	Stage 3	01A08063-005	<b>6032013</b>	
Heat Deflector Support	Stage 3	25-36379-1	9990195	
Interstage Assembly-Insulated	Stage 2-3	25-36103-1	0000195	
Angular Accelerometer Unit	Stage 2	25170-102	AAMQ1,58	
Battery Assembly	Stage 2	66603-107	AAVO384	
Cable Assembly-Electrical	Stage 2	25305-102	AFD0015	
Flight Control Unit	Stage 2	25300-102	AFA0021	
Motor	Stage 2	366978-59	0022017	
Heat Deflector Support	Stage 2	25 <b>-36</b> 378-1	0000197	
Interstage Assembly-Insulated	Stage 1-2	25-36101-1	0000202	
Battery Assembly	Stage 1	66603-107	AAV0331	
Cable Assembly-Electrical	Stage 1	25304-102	AFCOO14	
Flight Control Unit	Stage 1	25301-102	AEZ0016	
Motor	Stage 1	U32300-11	0012010	
Heat Deflector Support	Stage 1	25-36377-1	0000202	
Skirt Assembly	Stage 1	25-36080-1	0000193	

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4.5 CONFIGURATION SUMMARY

REPORT NO. D2-13947-2

MISSILE 8/N <u>63-193 (660</u>		ATE Aus 1	Nume 1, 1963	
COMPONENT	r	PART NO.	SERIAL NO.	
Cable Assembly-Electrical	Stage 3	25306-162	AFE0015	
Flight Control Unit	Stage 3	25362-102	APEGO3.0	
Motor	Stage 3	Q1A00063-005	0032011	
Heat Deflector Support	Stage 3	25-36379-1	0000500	
Interstage Assembly-Insula	ted Stage 2-3	25-36183-1	0002000	
Angular Accelerometer Unit	Stage 2	25170-102	AAM0172	
Battery Assembly	Stage 2	66603-107	AAV0388	
Cable Assembly-Electrical	Stage 2	253 <b>65-</b> 102	AFD0016	
Flight Control Unit	Stage 2	25300-102	AFA0022	
Motor	Stage 2	366978-59	0022018	
Heat Deflector Support	Stage 2	25-36378-1	0000201	
Interstage Assembly-Insula	ted Stage 1-2	25-36101-1	0000000	
Battery Assembly	Stage 1	66603-107	AAY0280	
Cable Assembly-Flectrical	Stage 1	25304-102	APC9017	
Flight Control Unit	Stage 1	25301-102	AEZ0021	
Motor	Stage 1	V32300-11	0012011	
Heat Deflector Support	Stage 1	25-36377-1	0000199	
Skirt Assembly	Stage 1	25-36080-1	0000197	

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## 4.6 CONFIGURATION SUMMARY

MISSILE 8/N 63-194 (662)

REPORT NO. D2-13947-2

DATE June 1, 1963

		MIB		
COMPONENT		PART NO.	SERIAL NO.	
Cable Assembly-Electrical	Stage 3	2530 <b>6-102</b>	AFEO010	
Flight Control Unit	Stage 3	25302-102	AFB0019	
Motor	Stage 3	01A90063-005	0035010	
Heat Deflector Support	Stage 3	2 <b>5-36</b> 379-1	0003501	
Interstage Assembly-Insulated	Stage 2-3	25-36103-1	0003504	
Angular Accelerometer Unit	Stage 2	25170-102	AAMO118	
Battery Assembly	Stage 2	66603-107	AAV0376	
Cable Assembly-Electrical	Stage 2	2530 <b>5-102</b>	AFD0017	
Plight Control Unit	Stage 2	25300-102	AFA0016	
Motor	Stage 2	<b>3669</b> 78 <b>-</b> 59	0022022	
Heat Deflector Support	Stage 2	25-36378-1	0000204	
Interstage Assembly-Insulated	Stage 1-2	25-36101-1	0000189	
Battery Assembly	Stage 1	<b>666</b> 03 <b>-1</b> 07	AAV0389	
Cable Assembly-Electrical	Stage 1	25304-102	AFC0015	
Flight Control Unit	Stage 1	25301-102	AEZ0023	
Motor	Stage 1	<b>U</b> 32300-11	0012014	
Heat Deflector Support	Stage 1	25-36377-1	0000200	
Skirt Assembly	Stage 1	25-36080-1	0000356	
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### 4.7 CONFIGURATION SUMMARY

REPORT NO. D2-13947-2

DATE June 1, 1963

COMPONERY		PART NO.	SERIAL NO.
Cable Assembly-Electrical	Stage 3	25306-102	<b>AF</b> E0007
Flight Control Unit	Stage 3	25302-102	AFB0026
Motor	Stage 3	01A00063-005	0032009
Heat Deflector Support	Stage 3	25-36379-1	0000918
Interstage Assembly-Insulated	Stage 2-3	25-36103-1	<b>000</b> 0199
Angular Accelerometer Unit	Stage 2	25170-102	AAH0189
Battery Assembly	Stage 2	66603-107	AAV0299
Cable Assembly-Electrical	Stage 2	25305-102	AFD0019
Flight Control Unit	Stage 2	25300-102	A <b>PA</b> 0010
Motor	Stage 2	3 <del>66</del> 978- <b>59</b>	0022015
Heat Deflector Support	Stage 2	25-36378-1	0000203
Interstage Assembly-Insulated	Stage 1-2	25-36101+1	0000197
Battery Assembly	Stage 1	66603-107	твеоча
Cable Assembly-Electrical	Stage 1	25304-102	AFC0013
Flight Control Unit	Stage 1	25301-102	AEZ0022
Motor	Stage 1	V32300-11	0012013
Heat Deflector Support	Stage 1	25-36377-1	0000212
Skirt Assembly	Stage 1	25-36080-1	0000206
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## 4.8 COMPTOURATION SUMMARY

MISSILE 8/N 63-196 (669)

REPORT NO. D2-13947-2

DATE

June 1, 1963

COMPONENT	agagagaga sahusi sam dan sahusi terah	PART NO.	SERIAL NO.
Cable Assembly-Electrical	Stage 3	25366-102	AFEOG18
Flight Control Unit	Stage 3	25302-102	A <b>F260</b> 18
Motor	Stage 3	01A00063-005	0032020
Heat Deflector Support	Stage 3	25-36379-1	0000204
Interstage Assembly-Insulated	Stage 2-3	25-36103-1	0000213
Angular Accelerometer Unit	Stage 2	25170-102	<b>VM</b> 0185
Battery Assembly	Stage 2	66603-107	AAV0371
Cable Assembly-Electrical	Stage 2	25305-102	AFDOG18
Flight Control Unit	Stage 2	25380-182	AFA0017
Motor	Stage 2	36978-59	0022021
Heat Deflector Support	Stage 2	25-36378-1	0000205
Interstage Assembly-Insulated	Stage 1-2	25-36101-1	<b>00001</b> 98
Battery Assembly	Stage 1	66603-107	AAVC374
Cable Assembly-Electrical	Stage 1	2 <b>5301-</b> 102	AFC0021
Flight Control Unit	Stage 1	25301-102	AEZ0024
Motor	Stage 1	U32300-11	0012012
Heat Deflector Support	Stage 1	25-36377-1	0000197
Skirt Assembly	Stage 1	25-36080-1	0000617
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